REMARKS

Applicants cancel claims 2-3 and 9-10. Claims 1, 4-8, and 11-14 remain pending in the application. Applicants amend claims 1 and 8 to incorporate features that correspond to those of claims 2-3 and 9-10, respectively. No new matter has been added.

Claims 1-6 and 8-13 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,131,016 to Greenstein et al.; and claims 7 and 14 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Greenstein et al. Applicants amend claims 1 and 8 to incorporate features that correspond to those of claims 2-3 and 9-10, respectively, and respectfully traverse the rejections.

Greenstein et al. describe a pilot tone comparison feedback technique for feeding back information about channels of respective transmit antennas, and thereby modifying transmission processing associated with the transmit antennas. In particular, Greenstein et al. describe a technique in which a mobile terminal detects the quality of a signal from a base station, transmits a feedback signal indicating which antenna is to be selected from a plurality of antennas of the base station, and the base station switches antennas in accordance with the feedback signal and transmits a signal to the mobile station. A transmitted signal from the base station is weighted so as to improve the quality at the receiving side.

In other words, Greenstein et al., as relied upon by the Examiner, fail to disclose or suggest,

> "[a] transmitting diversity system with a base station
> transmitting signals from a plurality of antennas and performing
> diversity transmission according to feedback data transmitted from
> a mobile node receiving the signals, comprising:
>   a signal condition detection unit detecting the condition of
> a signal transmitted from each of the plurality of antennas;

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an antenna selection unit selecting an antenna for which a control weight is calculated, from the plurality of antennas;

a control weight unit calculating a control weight applied to the selected antenna and applying the control weight to signals transmitted from the selected antenna; and

a switch unit routing input signals to each of the plurality of antennas and disconnecting the antenna, wherein

said control weight unit fixes the control weight of an unselected antenna, and

said antenna selection unit turns off a corresponding switch so that no signals can be transmitted from the unselected antenna,"

as recited in claim 1. (Emphasis added)

Advantageously, the claimed invention provides for feeding back only the transmission weight for the selected part of the antennas, and thus, reducing the amount of feedback information. The above-cited features are not disclosed or suggested in Greenstein et al.

Accordingly, Applicants respectfully submit that claim 1, together with claims 4-7 dependent therefrom, is patentable over Greenstein et al. for at least the above-stated reasons. Claim 8 incorporates features that correspond to those of claim 1 cited above, and is, therefore, together with claims 11-14 dependent therefrom, patentable over Greenstein et al. for at least the same reasons.

In view of the remarks set forth above, this application is in condition for allowance which action is respectfully requested. However, if for any reason the Examiner should consider this application not to be in condition for allowance, the Examiner is respectfully requested to telephone the undersigned attorney at the number listed below prior to issuing a further Action.
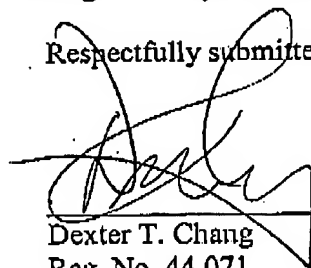
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Respectfully submitted,

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